

HMI Panel PC Panel PC

Configuration Number: BASE CONFIG

SL-PPC-24A-LLH310I-S17







24" Widescreen, TPM Support: 2.0 **Module Included**

Type:

- Panel PC
- Screen:
 - 24" Multi-Touch Projected Capacitive, Native Resolution: 1920 x 1080, Front Panel Rating: IP65 / NEMA4
- **Mounting:** Bezel Mounting Hardware Included, Suitable for Mounting in Cut-Out

Motherboard:

- Featuring Intel H310 Chipset and 8th and 9th Gen Core i7/i5/i3 (LGA1151) processor
- Long Production Cycle Motherboard (Through Q1 2025)
- No Available Slots
- LAN: 2x Ports (1GbE + 1GbE)
- Video: 1x VGA, 1x DisplayPort, 1x HDMI
- Audio: Realtek ALC887 codec
- Ports:

2x USB 2.0 Ports (2 Front) 4x USB 3.2 Gen 1 Ports (4 Rear) 4x COM Ports (2 RS232 Rear, 2 RS232 Internal Headers)

See specifications for more ports

• Operating Temperature: 0°C to 60°C $(32^{\circ}F \text{ to } 140^{\circ}F)$

Configuration summary:

• **Processor:** G4900 - 3.1GHz Intel Celeron CPU - Dual Core, 2MB Cache, UHD Graphics 610 (54W) (ERM) - or Better

- Memory: 8GB DDR4 2666MHz SODIMM
- Hard Drive: 500GB M.2 2280 NVMe SSD or greater
- Power Supply: 160w output, 12v input DC-DC Power Supply - AC Adapter Included
- Operating System: Not Included -Warranty: One-Year Depot Warranty

Technical Specifications

MotherBoard Specifications:

Motherboard Model

Motherboard Type: MiniITXLong Production Cycle

Long Life: YESEOL Date: Q1 2025

Supported CPU

• Number of Processors: 1

 Processor Type: 8th and 9th Gen Core i7/i5/i3 (LGA1151)

Chipset

• Chipset: Intel H310 Chipset

Memory

• Memory Type: SO DIMM DDR4 2400MHz

• Memory Type: Non-ECC

• DIMMS: 2

Maximum Memory: 32GB

On Board Audio

• Audio Type: Realtek ALC887 codec

On Board Video

- Video Chipset: Supported by CPU depends on CPU selected
- Video on IO: 1x VGA, 1x DisplayPort, 1x HDMI

VGA Port Out: 1Display Port Out: 1

• HDMI Out: 1

LAN

• LAN Ports: 2

• LAN Type: 1GbE + 1GbE

LAN Chipset: Intel GbE LAN chip

Display Specifications

Display

• Screen Size (inches): 24

• Touch Type: Multi-Touch Projected Capacitive

• Front Panel Rating: IP65 / NEMA4

• Aspect Ratio: 16:9

• Native Display Resolution: 1920 x 1080

Brightness (nits): 250
Screen Refresh Rate: 60Hz
Display Area (H): 531.36mm
Display Area (V): 298.89mm

Aspect Ratio: 16:9DisplayColors: 16.2 MContrast Ratio: 1000:1

Backlight: LED

Viewing Angle(U): 80
Viewing Angle(D): 80
Viewing Angle(L): 85
Viewing Angle(R): 85

Connectivity

VGA Port In: 1
 DVI-I In: 1
 HDMI In: 1
 S-Video: 1

• Touchscreen Interface USB Port (Front): 1

Mounting Options

- Mounting Options: VESA 75mm x 75mm, VESA 100mm x 100mm, Bezel Mounting Hardware Included, Other options sold separately
- Suggested Cut-Out Dimension (Width):
- Suggested Cut-Out Dimension (Height):

- Second LAN Chipset: Intel GbE LAN chip
- Wireless LAN: No Integrated WLAN

Drive Interface

• SATA III Ports (6GB): 4

Expansion Slots

• PCI Express x16 Slots On Motherboard: 1

Mini PCle

- mini PCle
- mSATA
- half and/or full size mini PCIe card: full size

M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 1
- M.2 Slot #1 Specs
- M.2 SATA SSD
- PCIe Signal
- 2260 22 mm x 60 mm.
- 2280 22 mm x 80 mm.

Rear IO

- USB 3.2 Gen 1 Type A Ports (on IO): 4
- Serial (Rear IO): 2
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 2
- Serial (via Headers): 2
- FAN Connectors: 2
- Audio on Headers
- TPM Support: 2.0 Module Included

Environmental

- Operating Temperature: 0°C to 60°C (32°F to 140°F)
- High Humidity: 95%
- Low Humidity: 5%

Operating System Support

- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- Windows 10 Pro WS (64-Bit)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 10 IoT Value 2019 LTSC
- Windows 10 IoT Ent 2019 LTSC
- Windows 10 IoT 2021 LTSC Value
- Windows 10 IoT 2021 LTSC High End
- Windows 11 Home (64 Bit)
- Windows 11 Pro (64 Bit)
- Windows 11 IoT 2024 LTSC Value
- Windows 11 IoT 2024 LTSC High End
- LINUX Ubuntu Desktop

Physical

- Width:
- Height:
- Depth:
- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Unboxed Weight: 20lbs
- Shipping Weight: 50lbs

Environmental

- MTBF: 30000hours
- Maximum Operating Temperature: 50C
- High Humidity: 90%
- Low Humidity: 8%
- Storage Temp (High): 60C
- Storage Temp (Low): -10C
- Storage Humidity (High): 90%
- Storage Humidity (Low): 8%

Power

- Power Supply: AC 100~240V/12V DC
- Power Consumption (on): 21Watts

Compliance of Component

- CE
- RoHS
- FCC
- CCC

Warranty

• Warranty: 1 year

Other

• Features:

Industrial Display

- Screen Size: 24"
- Touch Type: Multi-Touch Projected Capacitive
- Front Panel Rating: IP65 / NEMA4
- Native Display Resolution: 1920 x 1080
- Brightness (nits): 250

- LINUX Ubuntu Workstation
- Ubuntu Server Edition

Compliance of Component

- CE
- RoHS
- FCC

Other Features

- Other Features:
 - 1 x PCI Express x16 slot, running at x16 (PCIEX16)
 (The PCIEX16 slot conforms to PCI Express 3.0 standard.)
 - 1 x M.2 Socket 1 connector for an Intel® CNVi or PCIe wireless module (CNVI)
 - 1 x full size Mini PCle connector (MSATA PCIE)
 - * The MSATA_PCIE slot shares bandwidth with the SATA3 2 connector. When an MSATA SSD is populated, the SATA3 2 connector becomes unavailable.
 - * The MSATA_PCIE connector can also be used as an MSATA connector.
 (The Mini PCI Express slot conforms to PCI Express 2.0 standard.)
- Motherboard Warranty: 1 Year

Chassis Specifications:

General

• Form Factor: Micro PC

• Color: Black

Material: Metal/SteelMaterial Thickness: 1mm

• Motherboard Compatibility: Mini ITX

Expansion

Internal 2.5" Bays: 1Serial Port Punchouts: 2Parallel Port Punchouts: 1

Front Ports

• USB 2.0 Ports (Front): 2

• Antennae Punchout: 2

Cooling System

• Maximum Fan Count: 1

Physical

• Depth: 8.27"

• Depth (Inches): 8.27

• Width: 7.60" • Height: 2.60"

• Shipping Box - Depth: 13" • Shipping Box - Width: 9" • Shipping Box - Height: 5" • Shipping Weight: 8lbs

Other Features

• Chassis Warranty: 1 Year

Power

• Built-in Chassis Power Supply: AC/DC Power Adapter Included



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